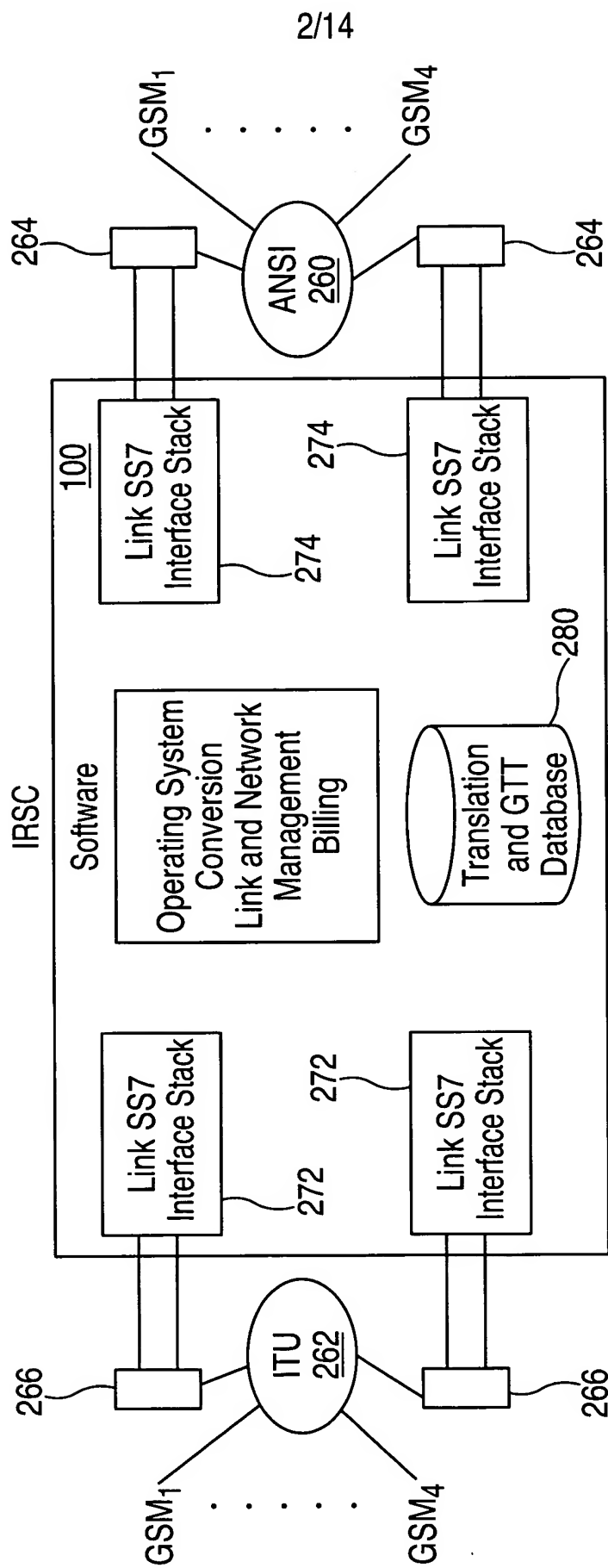
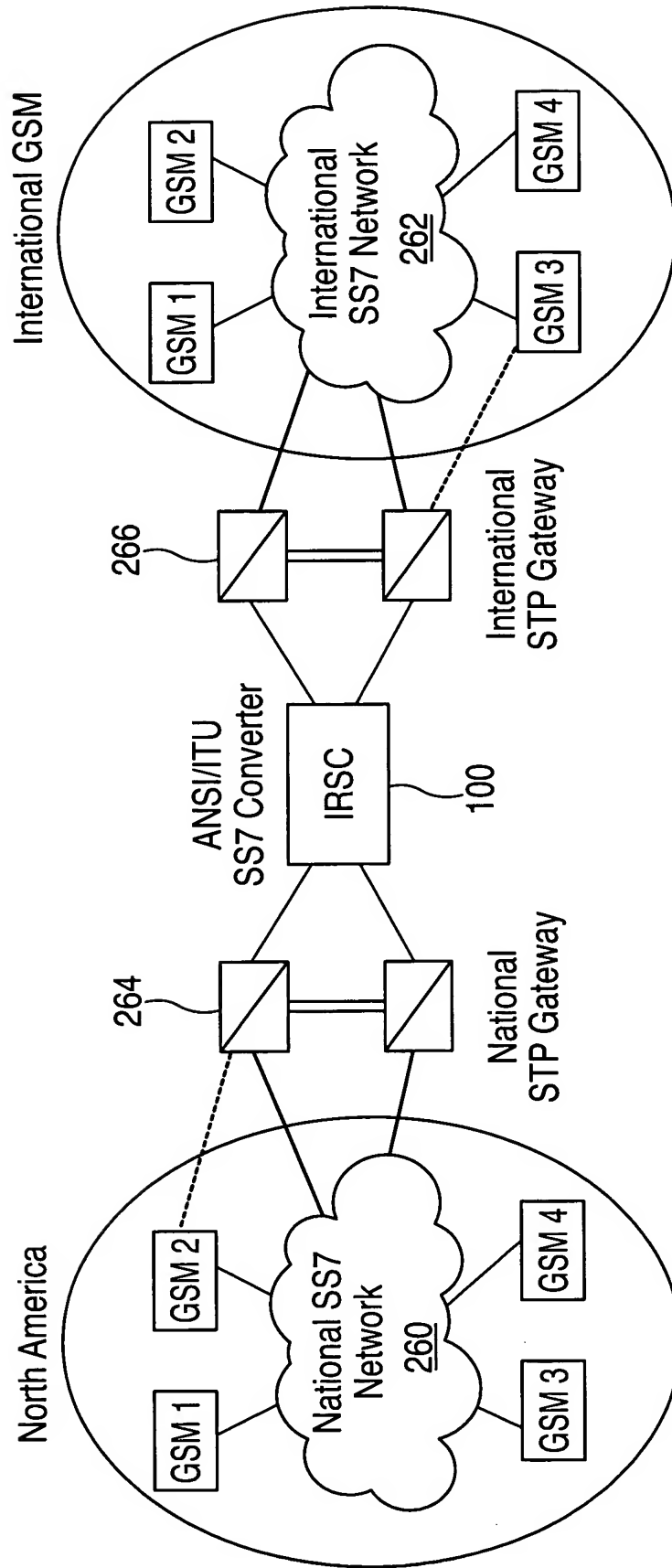


GSM Operator Network Typical Nodes

FIG. 1



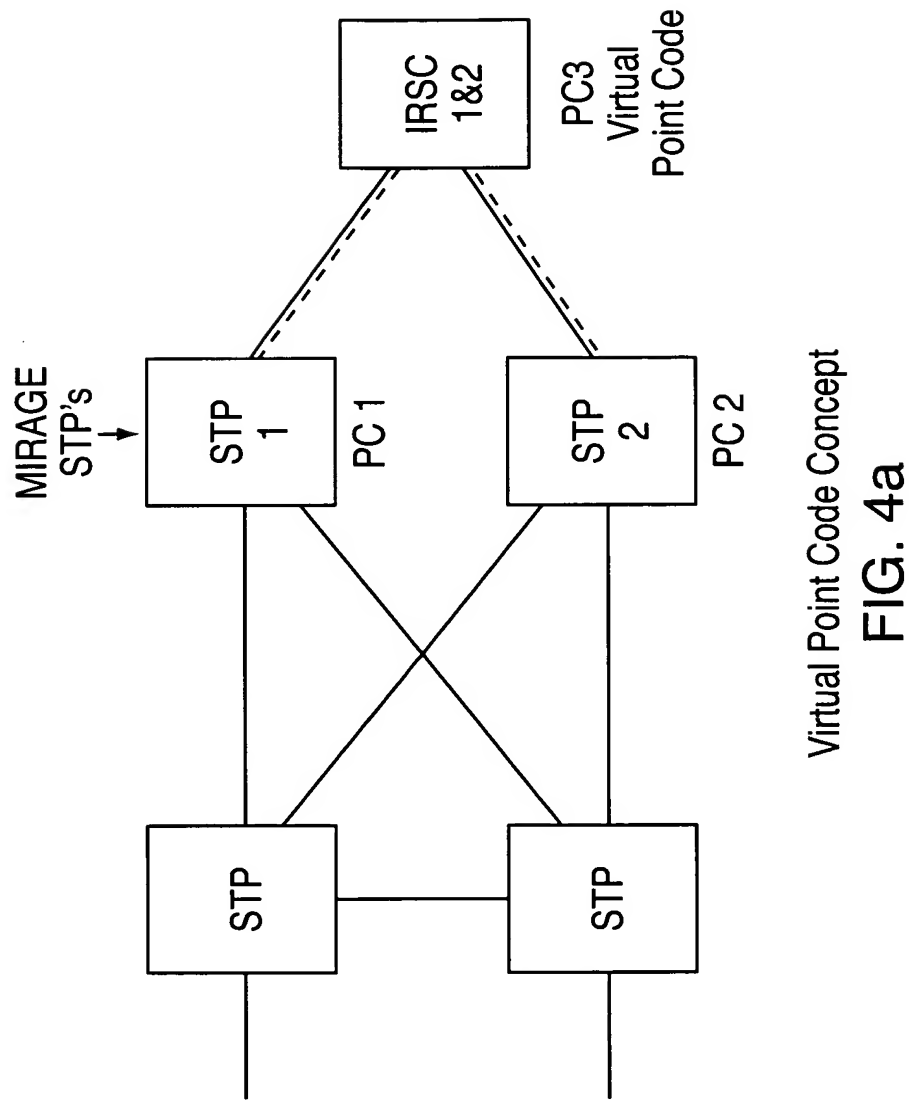
IRSC Components: Hardware, Firmware, and Software
FIG. 2



- STP Direct Connection to GSM Operator's Network is possible
- STP Connection to GSM Operator via other intervening Networks

IRSC Preferred Network Configuration

FIG. 3



Virtual Point Code Concept
FIG. 4a

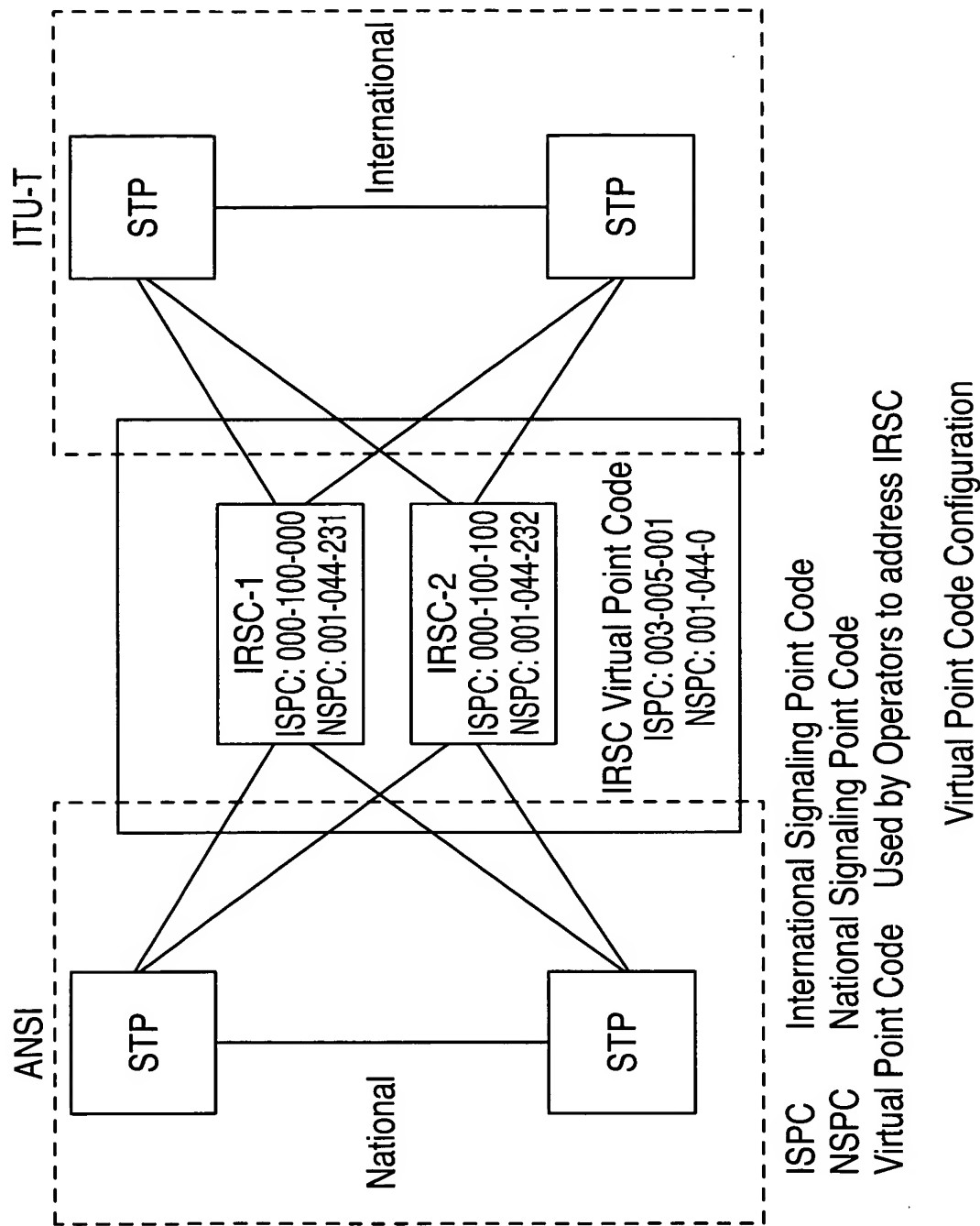
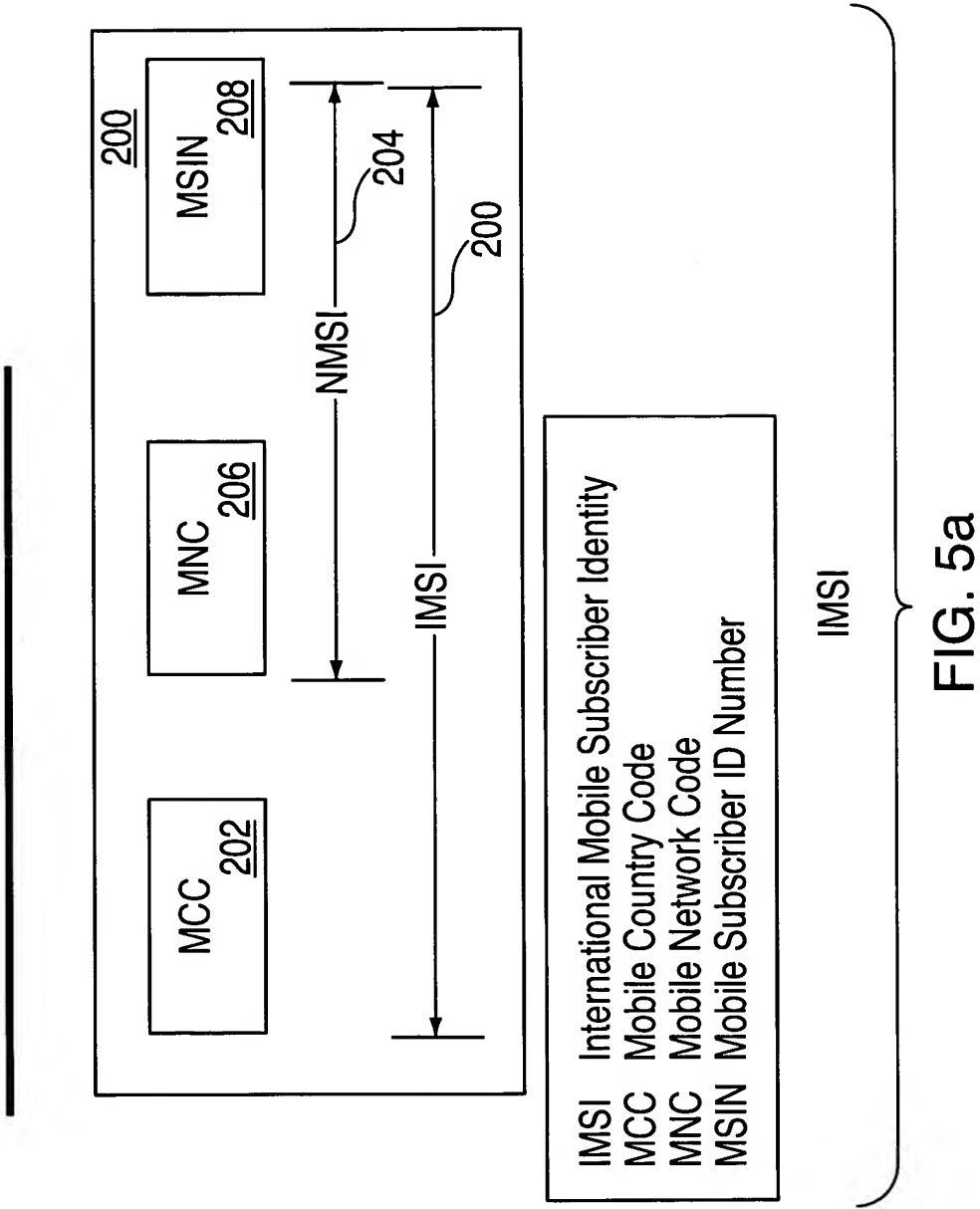


FIG. 4b

E.212 Number Format



E.214 Mobile Global Title Number Format

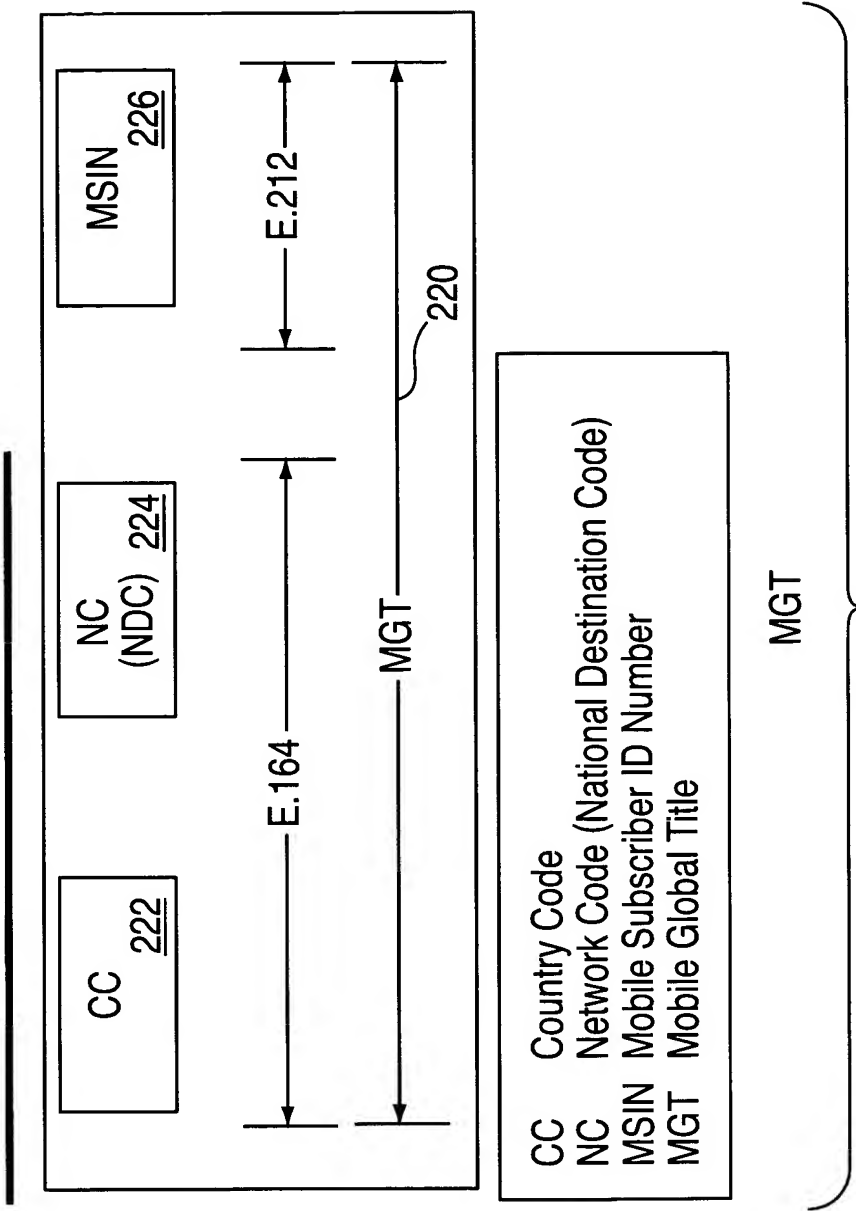
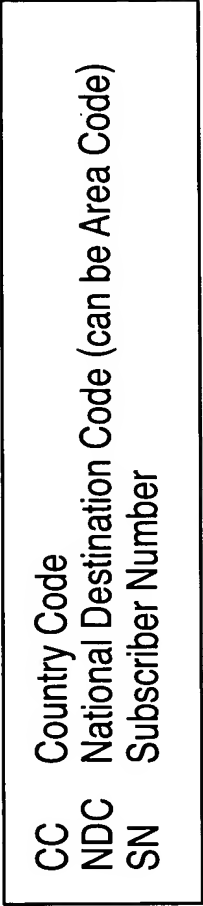
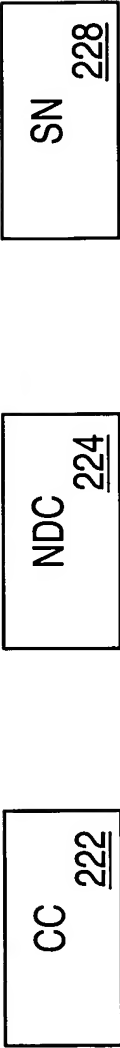


FIG. 5b

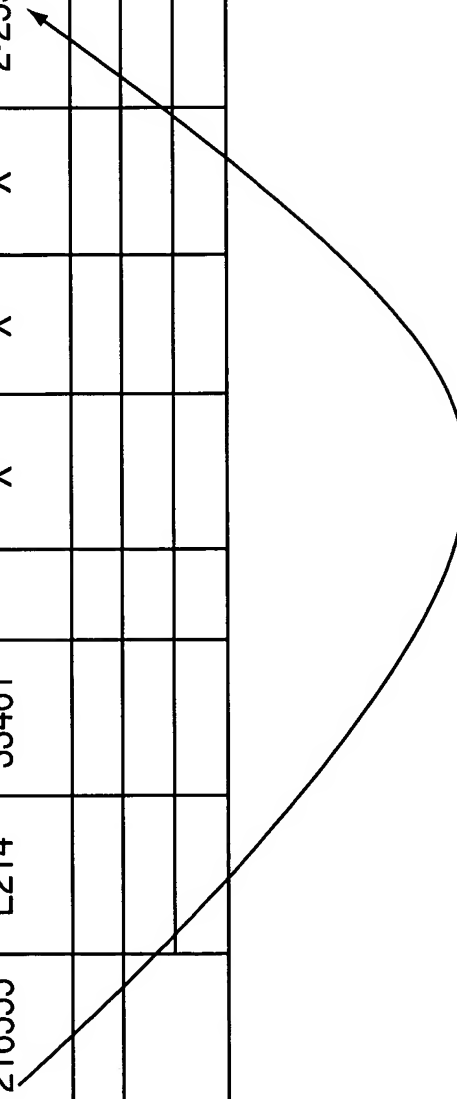
E.164 Number Format



ISDN Numbering Plan

FIG. 5c

Ref	Incoming number Plan Format	screening digits (key)	Outgoing number plan	Outgoing digits, replace incoming	Odd/Even Indicator	Outgoing routing type	NOA outgoing called party	NOA outgoing calling party	Primary DPC	Secondary DPC	name of carrier
1	E214	191790	E212	310160		GTT	Natl	Natl	211-255-255	211-255-250	GSM 1
2	E164	44385	E164	44385	0	GTT	Intl	Intl	2-69-1	2-70-1	GSM 2
	E212	216555	E214	33461		X	X	X	2-255-2		Example



Global Title Translation and Point Code Generation

FIG. 7

Translation Type	0	0
Numbering Plan	0111 (E.214)	0001 (E.164)
Encoding Scheme	BCD Odd/Even	BCD Odd/Even
Nature Of Address Indicator	International	International
Address Information	GT Address Value	GT Address Value

ITU Global Title Type Encoding

FIG. 8

Translation Type	9 (E.212)	10 (E.164)
Address Information	GT Address Value (BCD) **	GT Address Value (BCD) **

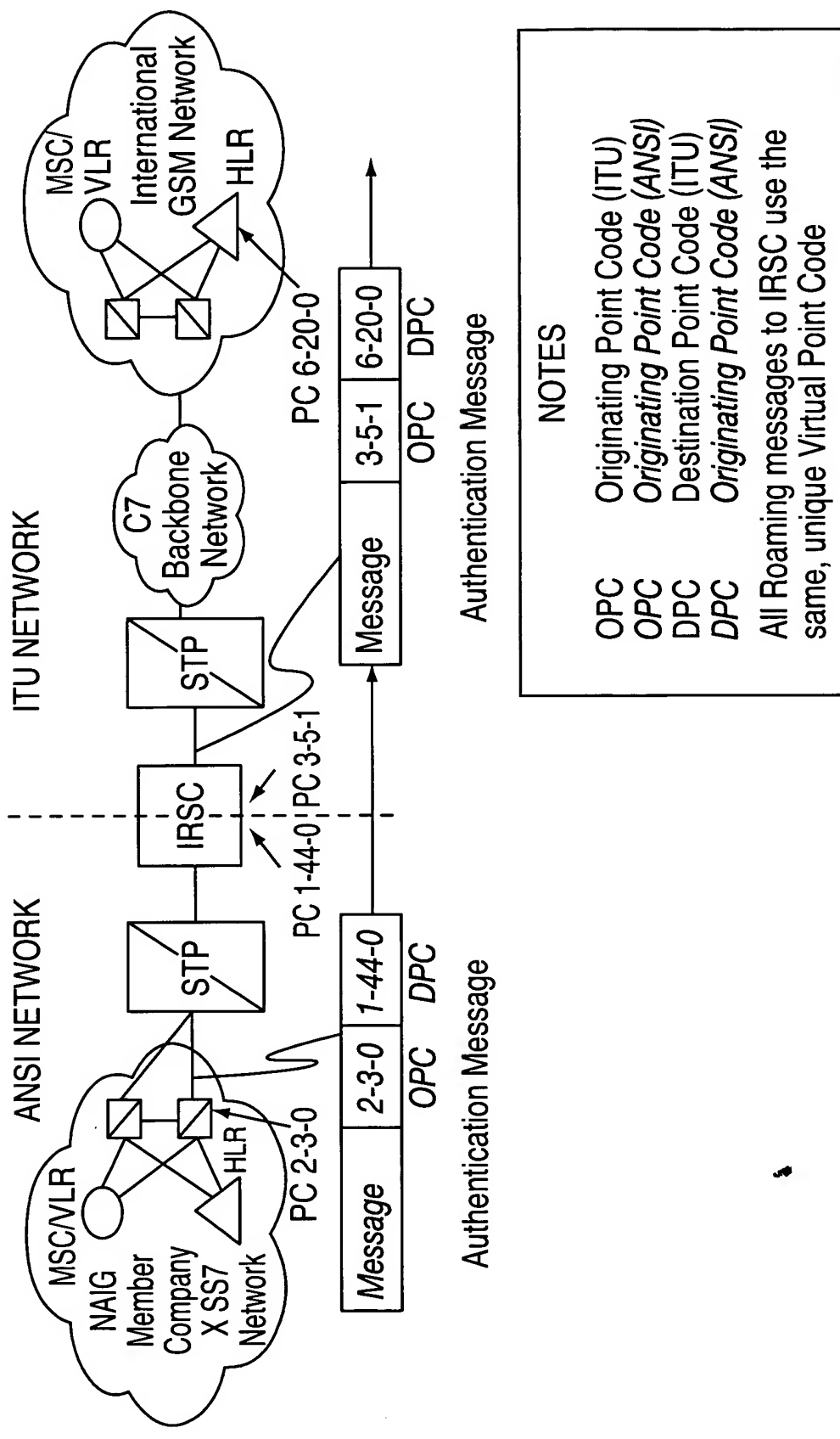
**Note that there is no Odd/Even indicator

ANSI Global Title Encoding

FIG. 9

Originating Network	Terminating Network	Screen Result	Primary Point Code	Secondary Point Code

Screening Table
FIG. 10



Routing Example

FIG. 11